

CONTENTS

DREAMS, STARS, AND ELECTRONS, Lyman Spitzer, Jr.	1
THE STATUS AND PROSPECTS FOR GROUND-BASED OBSERVATORY SITES, R. H. Garstang	19
THE ORION MOLECULAR CLOUD AND STAR-FORMING REGION, Reinhard Genzel and Jürgen Stutzki	41
X RAYS FROM NORMAL GALAXIES, G. Fabbiano	87
POPULATIONS IN LOCAL GROUP GALAXIES, Paul Hodge	139
A New Component of the Interstellar Matter: Small Grains and Large Aromatic Molecules, J. L. Puget and A. Léger	161
Interaction Between the Solar Wind and the Interstellar Medium, <i>Thomas E. Holzer</i>	199
Surface Photometry and the Structure of Elliptical Galaxies, John Kormendy and S. Djorgovski	235
ABUNDANCE RATIOS AS A FUNCTION OF METALLICITY, J. Craig Wheeler, Christopher Sneden, and James W. Truran, Jr.	279
T TAURI STARS: WILD AS DUST, Claude Bertout	351
ASTROPHYSICAL CONTRIBUTIONS OF THE INTERNATIONAL ULTRAVIOLET EXPLORER, Yoji Kondo, Albert Boggess, and	
Stephen P. Maran	397
CLASSIFICATION OF SOLAR FLARES, T. Bai and P. A. Sturrock	421
DIFFUSE GALACTIC GAMMA-RAY EMISSION, Hans Bloemen	469
QUASI-PERIODIC OSCILLATIONS AND NOISE IN LOW-MASS X-RAY BINARIES, M. van der Klis	517
KINEMATICS, CHEMISTRY, AND STRUCTURE OF THE GALAXY, Gerard Gilmore, Rosemary F. G. Wyse, and Konrad Kuijken	555
SUPERNOVA 1987A, W. David Arnett, John N. Bahcall, Robert P. Kirshner, and Stanford E. Woosley	629
CHEMICAL ANALYSES OF COOL STARS, Bengt Gustafsson	701
INDEXES Subject Index Cumulative Index of Contributing Authors, Volumes 17–27 Cumulative Index of Chapter Titles, Volumes 17–27	757 766 768
	iv